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CJ Date, CJ Date - 1990 - Springer

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#### Event specification in an active object-oriented database- kfupm.edu.sa [PDF]

NH Gehani, HV Jagadish, O Shmueli - Proceedings of the 1992 ACM SIGMOD international conference ..., 1992 - portal.acm.org

... We describe the integration of **composite event** specification in the context of O++, the **database** programming language for the Ode object **database** [1]. We ...

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#### [воок] Active rules in database systems

NW Paton - 1999 - books.google.com

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#### [PDF] ► SAMOS: An active object-oriented database system

S Gatziu, KR Dittrich - Data Engineering Bulletin, 1992 - eprints.kfupm.edu.sa

... Rule management incorporates tasks for the internal **processing** of rules ... a point in time specied by an occurrence in the **database** ( ... A **composite event** with the ...

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#### Composite events for network event correlation- ▶ psu.edu [PDF]

G Liu, AK Mok, EJ Yang - Integrated Network Management, 1999. Distributed Management ..., 1999 - ieeexplore ieee.org

... In this paper, we discuss the formal use of composite events for event correlation and present a **composite event** specification ap- proach that can precisely ...

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#### Active database systems- ▶ brandeis.edu [PDF]

NW Paton, O Díaz - ACM Computing Surveys, 1999 - portal.acm.org

... all the primitive events until the **composite event** is finally ... in Section 4. As a result, the **processing** of a ... with at least four different **database** states: DB T ...

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#### [PDF] ► Events in an Active, Object-Oriented Database System

S Gatziu, KR Dittrich - 1994 - citeseerx.ist.psu.edu

... Rule execution refers to the **processing** of rules, which ... Of course, like the **database** the rule- and the ... the definition of primitive and **composite event** patterns ...

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U Daval - Active and Real-time Database Systems (ARTDB-95); ..., 1995 - Springer Verlag

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# NAOS Efficient and modular reactive capabilities in an Object-Oriented **Database** System kfupm.edu.sa [PDF]

C Collet, T Coupaye, T Svensen - University Joseph Fourier of Grenoble, 1994 - eprints.kfupm.edu.sa ... execution, and program/application/transaction **processing**). ... are messages to objects, **database** operations or ... Considering **composite event** types, it is possible ... Cited by 107 - Related articles - View as HTML - Web Search - BL Direct - All 7 versions

The TriGS active object-oriented database system—an overview- ▶psu.edu [PDF] G Kappel, W Retschitzegger - ACM Sigmod Record, 1998 - portal.acm.org
... To realize these goals, first, composite event detection as ... Third, rule processing is made efficient by means ... Logical active database design, ie, the transfor ... Cited by 41 - Related articles - Web Search - BL Direct - All 18 versions

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#### **↑ ABSTRACT**

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional database systems, but has led to improved understanding of active behavior description languages, execution models, and architectures. This survey presents the fundamental characteristics of active database systems, describes a collection of representative systems within a common framework, considers the consequences for implementations of certain design decisions, and discusses tools for developing active applications.

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Serge Abiteboul , Richard Hull, IFO: a formal semantic database model, ACM Transactions on Database Systems (TODS), v.12 n.4, p.525-565, Dec. 1987 [doi>10.1145/32204.32205]

### **Bulletin of the Technical Committee on**

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T Härder, K Rothermel - The VLDB Journal The International Journal on Very Large ..., 1993 - Springer Page 1. VLDB Journa 2(1):39-74 (1993) Gunter Schlageter, Editor 9 39 Concurrency Control Issues in Nested Transactions Theo Hfirder and Kurt Rothermel ...

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T Härder, M Profit, H Schöning - 1992 - citeseerx.ist.psu.edu

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## Concurrency control in nested transactions with enhanced lock modes for KBMSs-

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#### [PDF] ► PRIMA-A DBMS prototype supporting engineering applications

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... ding data models, extensible implementations, storage structures, transaction concepts

and ... forms qualified projections and nested query blocks into a symmetric ...

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M Straßer, K **Rothermel** - International Journal of Cooperative Information Systems, 1998 - worldscinet.com ... The execution of a **nested** itinerary may have two different semantics. ... during the execution of the i-entry e n+ i are performed within a **transaction**, it might ...

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T Harder, H Schoning - Databases in Parallel and Distributed Systems, 1988. ..., 1988 - ieeexplore.ieee.org ... a nested transaction concept which allows a safe and effective execution control within parallel actions of an operation. 1. Introduction ...

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► ncku.edu.tw [PDF]

K Rothermel, M Strasser - Seventeenth IEEE Symposium on Reliable Distributed Systems, ..., 1998 - ieeexplore.ieee.org

... As we will see below, the exactly-once semantics of steps is implemented by means of ACID **transactions** in conjunction with a mechanism that guarantees a step ...

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#### Capturing design dynamics-the CONCORD approach

N Ritter, B Mitschang, T **Harder**, M Gesmann, H ... - Data Engineering, 1994. Proceedings. 10th International ..., 1994 - ieeexplore.ieee.org

... For example, the model of 'Nested Transactions' [MO811 allows with its non-vital subtransac- tions for fine-granuled units of recovery and for the use of ...

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K Rothermel - The VLDB Journal, 1993 - citeseerx.ist.psu.edu
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S Gatziu, KR Dittrich - 1994 - citeseerx.ist.psu.edu

... Abstract In this paper we investigate the definition, detection, and management

of events in the active object-oriented database system SAMOS. ...

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#### The active database management system manifesto: A rulebase of ADBMS features-

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KR Dittrich, S Gatziu, A Geppert - Rules in Database Systems: Second International Workshop, ..., 1995 - books.google.com

... the characteristics are that a **data-base** management system ... set of rules has been defined, the **active database** system monitors the rele -vant **events**. ...

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#### IPDFI ► SAMOS: An active object-oriented database system

S Gatziu, KR Dittrich - Data Engineering Bulletin, 1992 - eprints.kfupm.edu.sa

... Section 2 addresses the specication of events and section 3 presents the aspects

of the integration of active mechanisms into an object-oriented database system ...

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S Gatziu, A Geppert, KR Dittrich - The Third International Workshop on Database Programming ... - citeseerx.ist.psu.edu

... In summary, the schema definition for an **active**, object-oriented **database** system consists of ... The permissible uses of the various types of **events** for class ...

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... way as all user-provided data- base entities. ... automatically trigger changes for the affected events ... the point that mechanisms in active database systems entail ...

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Gatziu, S. Dittrich, K.R. Inst. fur Inf., Zurich Univ.;

This paper appears in: Research Issues in Data Engineering, 1994, Active Database Proceedings Fourth International Workshop on

Publication Date: 14-15 Feb 1994

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#### Abstract

The detection of events in an active database system turns out to be a difficult problem d event specification languages proposed in the recent past which include, among others, ( events (composite events). Therefore, a mechanism is required that is suitable to model 1 composite events and to implement the event detector. We demonstrate how Petri nets c basis of such a mechanism in the context of the SAMOS active database system prototy.

#### **Index Terms** inspec

#### Controlled Indexing

Petri nets database theory deductive databases specification languages

#### Non-controlled Indexing

Petri nets SAMOS active database systems complexly defined events comp event detector event-condition-action rules expressive event specification lang

#### **Author Keywords**

Not Available

#### Medical Subject Heading (MeSH Terms)

Not Available

#### References

No references available on IEEE Xplore.

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Specifying timing constraints and composite events: an application in the design of el brokerages, Mok, A.K.; Konana, P.; Guangtian Liu; Chan-Gun Lee; Honguk Woo Software Engineering, IEEE Transactions on

On page(s): 841-858, Volume: 30, Issue: 12, Dec. 2004

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Authors

Klaus R. Dittrich

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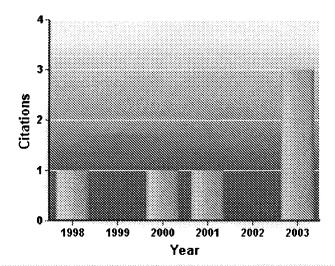
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#### **Abstract:**

Abstract New application areas or new technical innovations expect from database management systems more and more new functionality. However, adding functions to the DBMS as an integral part of them, tends to create monoliths that are difficult to design, implement, validate, maintain and adapt. Such monoliths can be avoided if one configures DBMS according to the actually needed functionality. In order to identify the basic functional components for the configuration the current monoliths should be broken up into smaller units, or in other words they could be " unbundled". In this paper we apply unbundling to active database systems. This results in a new form of active mechanisms where active functionality is no longer an integral part of the DBMS functionality. This allows the use of active capabilities with any arbitrary DBMS and in broader contexts. Furthermore, it allows the adaption of the active functionality to the application profile. Such aspects are crucial for a wide use of active functionality in real (database or not) applications.

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# Time issues in active database systems (1993) [13 citations — 4 self]

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BOOKMARKS

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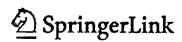
Active mechanisms based on event-condition-action rules will play an important role in next-generation database management systems. As an event, in its most general form, is essentially a point in time, it is obvious that an appropriate concept of time is needed for the specification of events. However, there are also other aspects related to time that need to be considered in active database systems, and which should tie in with the general concept of time in case the active database is also a temporal one. This position paper gives a brief account of where time issues arise in active database systems, and especially demonstrates various options for powerful event

specification features. 1 Motivation and relationship to temporal databases Active mechanisms are generally considered to be one of

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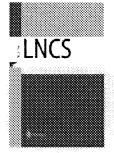
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Investigating termination in active database systems with expressive rule languages

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(1) Institut für Informatik, Universität Zürich, Germany Abstract

The powerful functionality that active mechanisms add to database management systems presents, besides many advantages, a number of problems related to the control of their behavior. This paper deals with one of these problems: the termination of rule execution. We explain the termination aspect and the aim of termination analysis. Then, we present our approach to investigating the termination of rule execution. In contrast to others, this approach also addresses expressive rule languages as they have been proposed for various recent active database management system prototypes.

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